X9DRD-iF

Key Features

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600
2. Intel® C602 chipset; QPI up to 8.0GT/s
3. Up to 256GB DDR3 1600MHz ECC Registered DIMM; 8x DIMM sockets
4. Expansion slots: 1 (x16) PCI-E 3.0 and 4 (x8) PCI-E 3.0 slots
5. Intel® i350 Dual port GbE LAN
6. 8x SATA2 and 2x SATA3 ports
7. Integrated IPMI 2.0 and KVM with Dedicated LAN
8. 9x USB 2.0 ports (4 rear, 4 via header + 1 Type A)

Links & Resources

- Tested Memory List
- Tested HDD / SSD List
- Motherboard Manual
- Update Your BIOS
- IPMI Firmware
- Download the Latest Drivers and Utilities
- Heat Sink Compatibility
- OS Compatibility

RoHS 6/6 COMPLIANT

Specifications

Product SKUs

MBD-X9DRD-iF - O	X9DRD-iF (Standard Retail Pack)
MBD-X9DRD-iF - B	X9DRD-iF (Bulk Pack)

Physical Stats

Form Factor	E-ATX
Dimensions	10.3" x 13" (26.2cm x 33.0cm)

Processor/Cache

CPU	**Intel® Xeon® processor E5-2600 (up to 135W TDP **)** Dual Socket R (LGA 2011)
Cache	Up to 20MB
System Bus	QPI up to 8 GT/s
	** Motherboard supports this maximum TDP. Please verify your system can thermally support.

System Memory

Memory Capacity	8x 240-pin DDR3 DIMM sockets Supports up to 256 GB DDR3 ECC Registered memory (RDIMM) Supports up to 64 GB DDR3 ECC/non-ECC Un-Buffered memory (UDIMM)
Memory Type	1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs Support ECC and non-ECC UDIMMs
DIMM Sizes	32GB, 16GB, 8GB, 4GB, 2GB, 1GB
Memory Voltage	1.5 V, 1.35 V
Error Detection	Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	Intel® C602 chipset
AHCI SATA	SATA 2.0 3Gbps with RAID 0, 1, 5, 10 SATA 3.0 6Gbps with RAID 0, 1, 5, 10
SCU SATA	SATA 2.0 3Gbps with RAID 0, 1, 5, 10

Chassis (Optimized for X9DRD-iF)

1U Chassis	CSE-813T-441CB
2U Chassis	CSE-823TQ-650B CSE-823TQ-653B CSE-825TQ-600LPB CSE-825TQ-R740LPB
Important Chassis Notes	To support the new generation Intel® Xeon® processor-based motherboards, **Revision M** chassis is recommended. Please talk to your sales representative for details. Please use optional I/O shield MCP-260-00041-0N in Supermicro 1U chassis

Expansion Slots

PCI-Express	1 (x16) PCI-E 3.0 slot 4 (x8) PCI-E 3.0 slots (Both CPUs need to be installed for full access to PCI-E slots. See manual for details.)

System BIOS

BIOS Type	128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	Plug and Play (PnP) APM 1.2 DMI 2.3 PCI 2.3 ACPI 1.0 / 2.0 / 3.0 / 4.0 BIOS rescue hot keys USB Keyboard support SMBIOS 2.7.1 UEFI

Management

Software	SuperDoctor® III Watch Dog NMI IPMI 1.5 / 2.0
Power Configurations	ACPI / APM Power Management CPU Fan auto-off in sleep mode Power-on mode for AC power recovery

IPMI	▪ Support for Intelligent Platform Management Interface v.2.0 ▪ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ▪ Nuvoton WPCM450 BMC
Network Controllers	▪ Intel® i350 Dual Port Gigabit Ethernet ▪ Virtual Machine Device Queues reduce I/O overhead ▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output ▪ 1x Realtek RTL8201F PHY (dedicated IPMI)
Video	▪ Matrox G200eW

Input / Output

AHCI SATA	▪ 2x SATA 3.0 ports (6Gbps) ▪ 4x SATA 2.0 ports (3Gbps)
SCU SATA	▪ 4x SATA 2.0 ports (3Gbps)
LAN	▪ 2x RJ45 Gigabit Ethernet LAN ports ▪ 1x RJ45 Dedicated IPMI LAN port
USB	▪ 9x USB 2.0 ports total (4x rear + 4x via header + 1x Type A)
Video	▪ 1x VGA port
Serial Port / Header	▪ 2x Fast UART 16550 ports (rear/header)
DOM	▪ 1 DOM (Disk on Module) power connector

PC Health Monitoring

Voltage	▪ Monitors for CPU Cores, +1.1V, +1.5V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, 4 Memory Voltages. ▪ 5+1 Phase-switching voltage regulator
FAN	▪ 8x 4-pin fan headers ▪ 8x fans with tachometer monitoring ▪ Status monitor for speed control ▪ Status monitor for on/off control ▪ Low noise fan speed control ▪ Pulse Width Modulated (PWM) fan connectors
Temperature	▪ Monitoring for CPU and chassis environment ▪ CPU thermal trip support ▪ I^2C temperature sensing logic ▪ Thermal Monitor 2 (TM2) support ▪ PECI
LED	▪ CPU / System Overheat LED ▪ Suspend static indicator LED ▪ UID/Remote UID
Other Features	▪ Chassis intrusion detection ▪ Chassis intrusion header ▪ SDDC Support ▪ RoHS

Operating Environment

Operating Temperature Range	▪ 10°C - 35°C (50°F - 95°F)
Non-Operating Temperature Range	▪ -40°C - 70°C (-40°F - 158°F)
Operating Relative Humidity Range	▪ 8% - 90% (non-condensing)
Non-Operating Relative Humidity Range	▪ 5% - 95% (non-condensing)

Note: For optimized or compatible chassis, additional parts may be required, please check with Supermicro sales rep

Parts List

Parts List (retail)

	Part Number	Qty	Description
X9DRD-iF	MBD-X9DRD-iF	1	X9DRD-iF Motherboard
I/O Cables	CBL-0044L	4	SATA CABLE 61CM FLAT S-S PBF
I/O Shield	MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB with Gasket.
Heat Sink (optional, not included)	-	-	CPU Heat Sink reference

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